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PATENT

Serial No. 10/538,628

Amendment in Reply to Office Action mailed on August 22, 2006

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A repetitive controller having the form of a memory loop fed with a periodic signal of period NT and in which the memory size includes $N/2$ memory elements, the feedback connection is negative and a factor of $-1/2$ is provided at the output of the memory loop, wherein N is an integer and T is period of time.

2. (Currently Amended) In a recording and reproducing apparatus including a head for recording data on a recording medium or reproducing the recorded data from said recording medium, a drive servo system for said recording medium, said system comprising a disturbance compensation module for compensating for the eccentricity of the recording medium, said module using

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iterative learning control and itself comprising a repetitive controller in the form of a memory loop fed with a periodic signal of period NT and in which the memory size includes $N/2$ memory elements, the feedback connection is negative and a factor of $-1/N$ is provided at the output of the memory loop, wherein N is an integer and T is period of time.